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by JC Hyun - 2004 - Cited by 10 - Related articles

The utility of these **transient solutions of film blowing** process is rather far-reaching in both analysis and synthesis of the system; first, it enables us ...
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[8] J.C. Hyun, H. Kim, J.S. Lee, H.-S. Song and H.W. Jung, **Transient solutions of the dynamics in film blowing processes**, J. Non-Newtonian Fluid Mech. ...
linkinghub.elsevier.com/retrieve/pii/S0377025705002235

[Show more results from linkinghub.elsevier.com](#)**Transient Solutions of Nonlinear Dynamics in Film Blowing ...**

by JC Hyun - 2008

The nonlinear dynamics in **film blowing** process is simulated employing the governing equations of the system that include the flow-induced crystallization ...
link.aip.org/link/?APCPCS/1027/3/1

Method for solving transient solution and dynamics in film blowing ...

by J Hyun - 2007

Aug 2, 2007 ... The present invention concerns the dynamics and yielding of **transient solutions for the film-blowing** process. After solving the governing ...
www.freepatentsonline.com/y2007/0179765.html

Transient Solutions of Nonlinear Dynamics in Film Blowing ...

by JC Hyun - 2008

Transient solutions of the dynamics in film blowing have been obtained showing close agreement with the experimental results of polymers including LDPE. ...
adsabs.harvard.edu/abs/2008AIPC.1027..3H

[PDF] Transient solutions of the dynamics in film blowing processes

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the off-line film experimental data and the theoretical on-line simulation data. The utility of these **transient solutions of film blowing** pro- ...
cfel.korea.ac.kr/pdf/International_11.pdf

Existence of optimal cooling conditions in the film blowing process

by JOOS LEE - 2006 - Cited by 1 - Related articles

The same simulation model of **film blowing** of Hyun et al. [J.C. Hyun, H. Kim, J.S. Lee, H.-S. Song, H.W. Jung, **Transient solutions of the dynamics in film** ...
cat.inist.fr/?aModele=afficheN&cpsidt=18146772

Transient solutions of dynamics in fiber spinning and film casting ...

by JS Lee - 2007 - Related articles

transient solutions of the processes accompanied by flow-induced crystallization lies in, ...
(e.g., fiber spinning, film casting and **film blowing**) has ...
www.springerlink.com/index/CUKUK64M28814VT8.pdf - Similar

Joo Sung Lee

Hyun, J. C., H. Kim, J. S. Lee, H.-S. Song and H. W. Jung, "Transient Solutions of the **Film Blowing** Dynamics," J. Non-Newtonian Fluid Mech., 121, ...
www.cchem.berkeley.edu/sjmgrp/people/jslee/jslee.htm - Cached

(WO/2006/088267) **A METHOD FOR SOLVING TRANSIENT SOLUTION AND ...**

The present invention concerns a dynamic scheme for the **film-blowing** process and a method for solving **transient solutions** for the process. ...
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Transient solutions of the dynamics in film blowing processes

JC Hyun, H Kim, JS Lee, HS Song, HW Jung - Journal of Non-Newtonian Fluids, 2004 - Elsevier

The **transient** behavior and stability of **film blowing** have been investigated solving the governing equations consisting of the moving-boundary partial differential equations. Incorporating an orthogonal collocation on finite elements and a coordinate transformation, a new numerical scheme ...

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Transient solutions of the dynamics in low-speed fiber spinning process ...

JS Lee, DM Shin, HW Jung, JC Hyun - Journal of Non-Newtonian Fluids, 2005 - Elsevier

... We have thus addressed this problem, ie, obtaining **transient solutions** when flow-induced crystallization occurs on the spinline, since it is ... the problem is equally warranted in other important polymer processing operations such as **film casting** [19] and **film blowing** [20] and [21] ...

Cited by 13 - Related articles - All 6 versions

Transient elongational viscosities and drawability of polymer melts

HM Laun, H Schuch - Journal of Rheology, 1989 - link.aip.org

... **Transient** elongational viscosities of polyethylene melts from converging flow (entrance pressure losses) and from ... tests allow predictions on differences of the drawability (minimum film thickness) in tubular **film blowing**. ... Homogeneous isotropic liquids; **solutions** and melts. ...

Cited by 157 - Related articles - All 3 versions

[CITATION] Polymer processing: principles and design

DG Baird, DI Collias - 1995 - Butterworth-Heinemann

Cited by 115 - Related articles - All 3 versions

[PDF] Frequency response of film casting process

JS Lee, HW Jung, JC Hyun - Korea-Australia Rheology Journal, 2003 - rheology.or.kr

... as well as an academically interesting stability topic for other extensional deformation processes as well like fiber spinning and **film blowing**. ... stability analysis suffices for determining the onset of the instability, while for more detailed sensitivity analysis **transient solutions** of the ...

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Transient solutions of the dynamics of film casting process using a 2-D viscoelastic ...

JM Kim, JS Lee, DM Shin, HW Jung, JC ... - Journal of Non-Newtonian Fluids, 2005 - Elsevier

... The same phenomenon also occurs in other extensional deformation processes, eg, fiber spinning and **film blowing**. ... Despite significant progress made by these efforts, there still remains the need for **transient solutions** of viscoelastic **film casting** and the fundamental ...

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A transient infrared thermography method for simultaneous film cooling ...

SV Ekkad, S Ou, RB Rivir - Journal of Turbomachinery, 2004 - link.aip.org

... The wall temperature on the mainstream side is monitored and rises as the surface gets heated during the **transient** test at a more gradual rate than the ... The **crossing solution** for a cylinder in cross-flow is shown for comparison. This result is for a cylinder without **film holes**. ...

Cited by 17 - Related articles - All 3 versions

Transient and steady-state solutions of 2D viscoelastic nonisothermal simulation ...

DM Shin, JS Lee, JM Kim, HW Jung, JC Hyun - Journal of Rheology, 2007 - link.aip.org

... The PTT model, known for its robustness in portraying dynamics in the extensional deformation processes which include the **film** casting of this study along with **film blowing** and fiber spinning as well, renders the **transient** and steady state **solutions** of the dynamics in the 2D ...

Cited by 6 - Related articles - BL Direct - All 9 versions

Stability of isothermal spinning of viscoelastic fluids

HW Jung, JC Hyun - Korean Journal of Chemical Engineering, 1999 - Springer

... in contrast to the exact stability analysis method which requires solving the **transient** equations ...of nonlinear dynamic systems like existence and uniqueness of the **solutions**, possibility of ... processes of polymer processing like fiber spinning, **film** casting, **film blowing**, calendering ...

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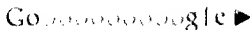
Multiplicity, bifurcation, stability and hysteresis in dynamic solutions of film blowing ...

DM Shin, JS Lee, HW Jung, JC Hyun - Journal of Rheology, 2007 - link.aip.org

... AIChE J. 42, 1388-1396 (1996). Hyun J.C., H.Kim, JSLee, HSSong, and HWJung,

"Transient solutions of the dynamics in film blowing processes," J. Non-Newtonian Fluid Mech. 121, 157-162 (2004). Jung H.W., and JCHyun ...

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